

AMENDMENTS TO THE CLAIMS

10/525498

9101 Rec'd PCT/PT 23 FEB 2005

This listing of claims replaces all prior versions, and listings, of claims in the application:

Listing of Claims

1-12. (Cancelled).

13. (New) A method for the transmission of data from a transmitter to a receiver, wherein a first protocol in the receiver performs a check whether received data is erroneous and wherein the transmitter performs a further data transmission according to said check, and wherein the first protocol processes the received data and passes a service data unit to the next higher protocol layer, said method comprising the steps of:

determining a reliability measure for the received data;

aggregating the reliability measure for at least a part of the service data unit;

performing a comparison of the aggregated reliability measure to a reliability threshold; and,

performing the further data transmission according to the result of the comparison for data which is detected as erroneous.

14. (New) The method according to claim 13, wherein the receiver requests the further data transmissions according to the comparison.

15. (New) The method according to claim 13, wherein the reliability measure is determined for a selected part of the received data.

16. (New) The method according to claim 13, wherein at least one further condition determines whether the further data transmission is performed.

17. (New) The method according to claim 16, wherein at least one second reliability threshold is defined and wherein a decision is performed to continue further data transmissions until a selected one of the reliability thresholds is achieved.

18. (New) The method according to claim 13, wherein the receiver sends reliability information indicating an error level of the received data to the transmitter.

19. (New) The method according to claim 14, wherein an optional retransmission request is defined in the first protocol, the receiver sends the optional retransmission request if the reliability measure is at least equal to one of the reliability thresholds, and wherein the transmitter performs a decision as to whether a further data transmission is performed in reply to the optional retransmission request.

20. (New) The method according to claim 13, wherein the transmitter sends a reliability requirement to the receiver and the receiver selects the reliability threshold according to the reliability requirement.

21. (New) The method according to claim 13, wherein the reliability measure is provided to a higher protocol layer or an application and the processing of the higher protocol layer or the application is adapted according to the reliability measure.

22. (New) A receiver for data sent by a transmitter, comprising:
a processing system;
a receiving unit for receiving the data and for forwarding said data to said processing system, wherein the processing system is adapted to perform a check using a first protocol whether received data is erroneous and the first protocol processes the received data and passes a service data unit to the next higher protocol layer; and,
a transmission unit adapted to send a request to the transmitter for a further data transmission according to said check, wherein the processing system comprises a unit for determining a reliability measure for the received data and for aggregating the reliability measure for at least a part of the service data unit, the processing system further comprises a unit for a comparison of the aggregated reliability measure to a reliability threshold, and the processing system is adapted to initiate the request for the

further data transmission according to the result of the comparison for data which is detected as erroneous.

23. (New) A transmitter, comprising:

a transmission unit for sending data to a receiver in which a first protocol processes the received data and passes a service data unit to a next higher protocol layer;

a receiving unit for receiving requests from the receiver for a further transmission of sent data; and,

a processing system for storing the sent data and for retrieving the stored data according to the requests and initiating a further data transmission by the transmission unit, wherein the processing system comprises a unit for determining a reliability measure for the data received by the receiver and for aggregating the reliability measure for at least a part of the service data unit, the processing system further comprising a unit for a comparison of the aggregated reliability measure to a reliability threshold, and wherein the processing system is adapted to initiate the further data transmission according to the result of the comparison.

* * *